

**PROFESSOR JN REDDY'S CONTRIBUTIONS TO COMPUTATIONAL
MECHANICS - A MINISYMPOSIUM ON THE OCCASION OF PROF.
REDDY'S 80TH BIRTHDAY**

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MINISYMPOSIUM

Professor JN Reddy has made seminal contributions to the broad field of computational mechanics including areas such as the finite element method, higher-order plate and shell theories, solid and structural mechanics, variational methods, mechanics of fibrous and laminated composites, functionally graded materials, fracture mechanics, plasticity, biomechanics, classical and non-Newtonian fluid mechanics, applied functional analysis, etc. His pioneering contributions have laid the foundations for novel mathematical models, non-classical and non-local theories, novel computational methods and design of novel materials for many emerging areas in science and engineering. The focus of this minisymposium is to celebrate Professor Reddy's contributions to computational mechanics by bringing together researchers who have worked in areas ranging from foundational computational mechanics to a variety of applications in mechanics and materials.

This minisymposium will include contributions in areas such as computational methods for solids and fluids, non-local and non-classical continuum mechanics, non-classical and geometrically inspired mathematical models for mechanics of emerging problems including complex interfaces, mechano-biology, micro and nanomechanics, multiphysics and multiscale methods for emerging applications in science and engineering, computation-driven design and manufacturing of novel materials, data-driven methods in mechanics, etc.

Other contributions that build upon Professor JN Reddy's foundational work are also welcome.